

Clinical Trial Protocol

Iranian Registry of Clinical Trials

15 Jun 2026

Comparison of Probing Depth at Distal of Second Molar after Surgical Removal of Semi -Impacted and Eruption Wisdom Teeth in Lower Jaw by Two Suture Techniques

Protocol summary

distal of second molar

Study aim

Comparison of probe depth in the distal region of the second molar after surgery of semi-impacted wisdom teeth and mandibular growth with two suture methods

Design

The clinical trial has two groups of control and intervention. Which is performed in parallel and is double-blind. The sample size of 16 patients with bilateral mandibular wisdom teeth (32 wisdom teeth) requires surgery. Using a table of numbers A simple coincidence determines in which patient which side of the mandible is part of the control group and which side is part of the control group.

Settings and conduct

The study site is in the office of maxillofacial surgeon and dental clinic of Urmia University of Medical Sciences. The study is a double-blind study involving the patient and the person evaluating the results. The other side of the flap is stitched with a simple modified suture.

Participants/Inclusion and exclusion criteria

Inclusion criteria: bilateral semi-occlusion of the mandibular mandibular third molars or bilateral erupted third molars, over 16 and under 40 years of age. Exclusion criteria: pregnancy and lactation and intraoral infections such as acute periodontitis or apical periodontitis in last 6 months. Presence of systemic diseases (diabetes, hypertension, thalassemia and platelet deficiency) and the use of anticoagulants.

Intervention groups

People with bilateral tertiary molars in the mandible who have a simple modified suture on one side of the patient after wisdom tooth surgery, which is the same as our intervention group, and a simple suture on the opposite side of the same patient after surgery. To be part of the control group.

Main outcome variables

Periodontal pocket depth and clinical attachment loss in

General information

Reason for update

Acronym

IRCT registration information

IRCT registration number: **IRCT20210107049961N1**

Registration date: **2021-02-02, 1399/11/14**

Registration timing: **registered_while_recruiting**

Last update: **2021-02-02, 1399/11/14**

Update count: **0**

Registration date

2021-02-02, 1399/11/14

Registrant information

Name

sina ilkhani

Name of organization / entity

Country

Iran (Islamic Republic of)

Phone

+98 44 3226 1497

Email address

dr.ilkhani.s@gmail.com

Recruitment status

Recruitment complete

Funding source

Expected recruitment start date

2021-01-19, 1399/10/30

Expected recruitment end date

2021-07-05, 1400/04/14

Actual recruitment start date

empty

Actual recruitment end date

empty

Trial completion date

empty

Scientific title

Comparison of Probing Depth at Distal of Second Molar after Surgical Removal of Semi -Impacted and Eruption Wisdom Teeth in Lower Jaw by Two Suture Techniques

Public title

The effect of simple and modified sutures on complications of third molars

Purpose

Treatment

Inclusion/Exclusion criteria**Inclusion criteria:**

Bilateral occlusion of the mandibular mandibular third molars bilateral erupted third molars Age under 40 years old No pregnancy or lactation

Exclusion criteria:

Pregnant women Acute infection and intraoral lesions Systemic diseases such as (diabetes, hypertension, etc.)

Age

From **16 years** old to **40 years** old

Gender

Both

Phase

N/A

Groups that have been masked

- Participant
- Investigator
- Outcome assessor

Sample size

Target sample size: **16**

More than 1 sample in each individual

Number of samples in each individual: **2**

People who need bilateral third molars in the mandible

Randomization (investigator's opinion)

Randomized

Randomization description

In patients who need wisdom tooth surgery, we randomly suture a simple suture on one side and a modified suture on the other side in one patient. Syntax: from the sample of 16 patients, the first 8 are selected. Our surgical intervention is performed on the right wisdom tooth, and the surgical control group is on the left, and the remaining 8 intervention groups are on the left and the control group is on the right side of the patient.

Blinding (investigator's opinion)

Double blinded

Blinding description

The person who examines the results of different stitches in a person does not know the type of stitches on that side.

Placebo

Not used

Assignment

Parallel

Other design features**Secondary Ids**

empty

Ethics committees**1****Ethics committee****Name of ethics committee**

Ethics Committee of Urmia University of Medical Sciences

Street address

Urmia-Resalat St.-Emergency Alley-University Headquarters

City

Urmia

Province

West Azarbaijan

Postal code

5714783734

Approval date

2020-12-13, 1399/09/23

Ethics committee reference number

IR.UMSU.REC.1399.278

Health conditions studied**1****Description of health condition studied**

Complications of wisdom tooth surgery

ICD-10 code

T88.9

ICD-10 code description

Complication of surgical and medical care, unspecified

2**Description of health condition studied**

Gingival recession

ICD-10 code

K06.0

ICD-10 code description

Gingival recession

3**Description of health condition studied**

Periodontal conditions

ICD-10 code

K05.5

ICD-10 code description

Other periodontal diseases

Primary outcomes**1****Description**

Clinical attachment loss

Timepoint

Before surgery and 3 months later

Method of measurement

Michigan periodontal probe

2

Description

Probing depth

Timepoint

Before surgery and 3 months later

Method of measurement

Michigan periodontal probe

Secondary outcomes

empty

Intervention groups

1

Description

Intervention group: modified simple suture; insert the suture needle a little more mesially from the distal parasite line of the second molar from the buccal side, and also remove the needle more distal from the distal parasite line towards the lingual, and stretch the suture in the distal side of the second molar.

Category

Treatment - Surgery

2

Description

Control group: simple suture; the suture needle is inserted from the outer surface of the needle and exits from the opposite side of the ruffle, and then re-enters the initial entry point of the needle and is tied.

Category

Treatment - Surgery

Recruitment centers

1

Recruitment center

Name of recruitment center

School of Dentistry, Urmia University of Medical Sciences

Full name of responsible person

Dr. Sina Ilkhani

Street address

12 meters from Hadi, Alborz St.

City

Urmia

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Postal code

5719736191

Phone

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Email

dr.ilkhani.s@gmail.com

2

Recruitment center

Name of recruitment center

Maxillofacial surgery office

Full name of responsible person

Dr. Sina Ilkhani

Street address

3rd floor, Iranmehr Building, Khan Babakhan

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Urmia

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+98 44 3226 1497

Email

dr.ilkhani.s@gmail.com

Sponsors / Funding sources

1

Sponsor

Name of organization / entity

Oroumia University of Medical Sciences

Full name of responsible person

Dr Iraj Mohebbi

Street address

Urmia University of Medical Sciences, Emergency Alley, Resalat Boulevard

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Urmia

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dr.mohebbi.iraj@gmail.com

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?

Yes

Title of funding source

Oroumia University of Medical Sciences

Proportion provided by this source

100

Public or private sector

Public

Domestic or foreign origin

Domestic

Category of foreign source of funding

empty

Country of origin

Type of organization providing the funding

Academic

Person responsible for general inquiries

Contact

Name of organization / entity

Oroumia University of Medical Sciences

Full name of responsible person

Dr. Sina Ilkhani

Position

Assistant professor

Latest degree

Specialist

Other areas of specialty/work

Maxillofacial surgery

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Person responsible for scientific inquiries

Contact

Name of organization / entity

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Person responsible for updating data

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Position

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Latest degree

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Sharing plan

Deidentified Individual Participant Data Set (IPD)

Undecided - It is not yet known if there will be a plan to make this available

Study Protocol

Undecided - It is not yet known if there will be a plan to make this available

Statistical Analysis Plan

Not applicable

Informed Consent Form

Undecided - It is not yet known if there will be a plan to make this available

Clinical Study Report

Not applicable

Analytic Code

Not applicable

Data Dictionary

Not applicable